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- 86 436-78 Additional service accumulation
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- 86.440-78 Maintenance of records.
- 86.441-78 Right of entry.
- 86.442-78 Denial, revocation, or suspension of certification.
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Subpart F—Emission Regulations for 1978 and Later New Motorcycles, Test Procedures

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- 86.504-78 Section numbering.
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- 86.514–78 Analytical gases.
- 86.515-78 EPA urban dynamometer driving schedule.
- $86.516\hbox{--}90$ Calibrations, frequency and overview.
- 86.518-78 Dynamometer calibration.
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- 86.521-90 Hydrocarbon analyzer calibration. 86.522-78 Carbon monoxide analyzer calibration.
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- 86.524-78 Carbon dioxide analyzer calibration.
- 86.526-90 Calibration of other equipment.
- 86.527–90 Test procedures, overview.
- 86.528–78 Transmissions.
- $86.529\mbox{-}78$ Road load force and inertia weight determination.
- 86.529-98 Road load force and inertia weight determination.
- 86.530-78 Test sequence, general requirements.
- 86.531-78 Vehicle preparation.
- 86.532-78 Vehicle preconditioning.

- 86.535–90 Dynamometer procedure.
- 86.536-78 Engine starting and restarting.
- 86.537–90 Dynamometer test runs. 86.540–90 Exhaust sample analysis.
- 86.542-90 Records required.
- 86.544-90 Calculations; exhaust emissions.
- 86.544-91-86.599-99 [Reserved]

AUTHORITY: 42 U.S.C. 7401-7521(1) and 7521(m)-7671q.

EFFECTIVE DATE NOTE: The new information collection requirements for part 86 published in the FEDERAL REGISTER at 59 FR 16262, Apr. 6, 1994, which apply to 1998 and later model year vehicles, have not been approved by the Office of Management and Budget (OMB) and are not effective. The Environmental Protection Agency will publish a document once OMB approves the information collection requirements.

EDITORIAL NOTE: Nomenclature changes to part 86 appear at 60 FR 34377, June 30, 1995.

§86.1 Reference materials.

- (a) The documents in paragraph (b) of this section have been incorporated by reference. The incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be inspected at U.S. EPA. OAR, 401 M St., SW., Washington, DC 20460, or at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC.
- (b) The following paragraphs and tables set forth the material that has been incorporated by reference in this part.
- (1) ASTM material. The following table sets forth material from the American Society for Testing and Materials that has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than this section, in which the matter is referenced. Copies of these materials may be obtained from American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428–2959.

Document number and name

40 CFR part 86 reference 86.1105–87.

ASTM E29-67 (Reapproved 1980), Standard Recommended Practice for Indicating Which Places of Figures Are To Be Considered Significant in Specified Limiting Values.

ASTM E29–90, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications.

86.609–84; 86.609–96; 86.609–97; 86.609–98; 86.1009–84; 86.1009–96; 86.1442; 86.1708–99; 86.1709–99; 86.1710–99; 86.1728–99.

Environmental Protection Agency

Document number and name	40 CFR part 86 reference
ASTM D5186-91, Standard Test Method for Determination of Aromatic Content of Diesel Fuels by Supercritical Fluid Chromatography.	86.113–07; 86.1313–91; 86.1313–94; 86.1313–98; 1313–2007.
ASTM D2163–91, Standard Test Method for Analysis of Liquefied Petroleum (LP) Gases and Propane Concentrates by Gas Chromatography.	86.113–94; 86.1213–94; 86.1313–94.
ASTM D1945–91, Standard Test Method for Analysis of Natural Gas By Gas Chromatography.	86.113–94; 86.513–94; 86.1213–94; 86.1313–94.
ASTM Ẽ29-9́3a, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications.	86.098–15; 86.004–15; 86.007–11; 86.007–15; 86.1803–01; 86.1823–01; 86.1824–01; 86.1825–01; 86.1837–01.
ASTM D2986–95a, (Reapproved 1999) Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test.	86.1310–2007.
ASTM F1471-93, Standard Test Method for Air Cleaning Performance of a High-Efficiency Particulate Air-Filter System.	86.1310–2007.

(2) SAE material. The following table sets forth material from the Society of Automotive Engineers that has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than §86.1, in which the matter is referenced. The second column is presented for information only and may not be all inclusive. Copies of these materials may be obtained from Society of Automotive Engineers International, 400 Commonwealth Dr., Warrendale, PA, 15096–0001.

Document No. and name	40 CFR part 86 reference
SAE J1349, June 1990, Engine Power Test Code—Spark Ignition and Compression Ignition.	86.094–8; 86.096–8
SAE J1850 July 1995, Class B Data Communication Network Interface.	86.099–17; 86.1806–01
SAE J1877, July 1994 Recommended Practice for Bar-Coded Vehicle Identification Number Label.	86.095–35; 86.1806–01
SAE J1892 October 1993, Recommended Practice for Bar-Coded Vehicle Emis- sion Configuration Label.	86.095–35; 86.1806–01
SAE J1939–11, December 1994, Physical Layer-250K bits/s, Shielded Twisted Pair.	86.005–17; 86.1806–05
SAE J1939–13, July 1999, Off-Board Diagnostic Con- nector.	86.005–17; 86.1806–05
SAE J1939–21, July 1994, Data Link Layer.	86.005–17; 86.1806–05
SAE J1939-31, December 1997, Network Layer.	86.005–17; 86.1806–05
SAE J1939–71, May 1996, Vehicle Application Layer.	86.005–17; 86.1806–05
SAE J1939–73, February 1996, Application Layer-	86.005–17; 86.1806–05

Diagnostics.

Document No. and name	40 CFR part 86 reference
SAE J1939–81, July 1997, Recommended Practice for Serial Control and Commu- nications Vehicle Net- work—Part 81—Network Management.	86.005–17; 86.1806–05
SAE J1962 January 1995, Diagnostic Connector.	86.099–17; 86.1806–01
SAE J1979 July 1996, E/E Diagnostic Test Modes.	86.099–17; 86.1806–01
SAE J2012 July 1996, Recommended Practice for Diagnostic Trouble Code Definitions.	86.099–17; 86.1806–01
SAE Recommended Practice J1151, December 1991, Methane Measurement Using Gas Chromatography, 1994 SAE Handbook—SAE International Cooperative Engineering Program, Volume 1: Materials, Fuels, Emissions, and Noise; Section 13 and page 170 (13.170).	86.111–94; 86.1311–94.
ASE Recommended Practice J1937, November 1989, Engine Testing with Low Temperature Charge Air Cooler Systems in a Dyna- mometer Test Cell.	86.1330-84; 86.1330-90.

(3) ANSI material. The following table sets forth material from the American National Standards Institute that has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than §86.1, in which the matter is referenced. The second column is presented for information only and may not be all inclusive. Copies of these materials may be obtained from the American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036.

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Document number and name	40 CFR part 86 reference
ANSI/AGA NGV1–1994, Standard for Compressed Natural Gas Vehicle (NGV) Fueling Connection De- vices.	86.001–9; 86.004–9; 86.098– 8; 86.099–8; 86.099–9; 86.1810–01

(4) California regulatory requirements. The following table sets forth California regulatory requirements that have been incorporated by reference. The first column lists the name and date of the material. The second column lists the sections of the part, other than §86.1, in which the matter is referenced. The second column is presented for information only and may not be all-inclusive. Copies of these materials may be obtained from U.S. EPA, Office of Air and Radiation, 1200 Pennsylvania Ave., NW., Washington, DC 20460.

Document No. and name	40 CFR part 86 reference
California Regulatory Requirements Applicable to the "LEV II" Program, including:.	
California Exhaust Emission Standards and Test Procedures for 2003 and Subsequent Model Zero-Emission Vehicles and 2001 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-duty Truck and Mediumduty Vehicle Classes. August 5, 1999.	86.1806–01; 86.1811–04; 86.1844–01.
 California Non-Meth- ane Organic Gas Test Procedures. August 5, 1999. 	86.1803–01; 86.1810–01; 86.1811–04.
California Regulatory Requirements Applicable to the National Low Emission Vehicle Program, October 1996.	86.113–004; 86.612–97; 86.1012–97; 86.1702–99; 86.1708–99; 86.1709–99; 86.1717–99; 86.1735–99; 86.1771–99; 86.1775–99; 86.1776–99; 86.1777–99; Appendix XVI; Appendix XVII.

(5) ISO material. The following table sets forth material from the International Organization of Standardization that has been incorporated by reference. The first column lists the number and name of the material. The second column lists the section(s) of this part, other than §86.1, in which the matter is referenced. The second column is presented for information only

and may not be all inclusive. Copies of these materials may be obtained from the International Organization for Standardization, Case Postale 56, CH– 1211 Geneva 20, Switzerland.

Document No. and Name	40 CFR part 86 ref- erence
ISO 9141–2 February 1994,Road vehicles—Diagnostic systems Part 2	86.099–17; 86.1806–01
ISO 14230–4:2000(E), June 1, 2000 Road Vehicles—Diagnostic Systems—Keyword Protocol 2000—Part 4: Requirements for emis-	
sion-related systems	86.005–17; 86.1806–05

[58 FR 16019, Mar. 24, 1993, as amended at 58 FR 58417, Nov. 1, 1993; 59 FR 48491, 59 FR 48491, Sept. 21, 1994; 59 FR 50073, Sept. 30, 1994; 60 FR 43887, Aug. 23, 1995; 61 FR 54877, Oct. 22, 1996; 62 FR 31232, June 6, 1997; 62 FR 47119, Sept. 5, 1997; 62 FR 54715, Oct. 21, 1997; 63 FR 965, Jan. 7, 1998; 63 FR 70694, Dec. 22, 1998; 64 FR 23920, May 4, 1999; 65 FR 6848, Feb. 10, 2000; 65 FR 59944, Oct. 6, 2000; 66 FR 5159, Jan. 18, 2001]

Subpart A—General Provisions for Emission Regulations for 1977 and Later Model Year New Light-Duty Vehicles, Light-Duty Trucks and Heavy-Duty Engines, and for 1985 and Later Model Year New Gasoline Fueled, Natural Gas-Fueled, Liquefied Petroleum Gas-Fueled and Methanol-Fueled Heavy-Duty Vehicles

Source: 42 FR 32907, June 28, 1977, unless otherwise noted.

$\S 86.000-2$ Definitions.

The definitions of §86.098-2 continue to apply to 1998 and later model year vehicles. The definitions listed in this section apply beginning with the 2000 model year.

ACI means a test procedure as described in §86.162–00 which simulates testing with air conditioning operating in an environmental test cell by adding the air conditioning compressor load to the normal dynamometer forces.

AC2 means a test procedure as described in §86.162–00 which simulates testing with air conditioning operating in an environmental test cell by adding